

GOROMOSOV, M.S., red.; GROMBAKH, S.M., red.; ZHDANOV, V.M., red.;
POKROVSKIY, A.A., red.; KROTKOV, F.G., red.; LETAVET, A.A.,
red.; LITVINOV, N.N., red.; RYAZANOV, V.A., red.; URAZAEV,
N.M., red.; CHERKINSKIY, S.N., red.; KHAMIDULLIN, R.S., red.

[Transactions of the 14th All-Union Congress of Hygienists
and Public Health Physicians] Trudy Vsesoiuznogo z"ezda
gigienistov i sanitarnykh vrachei, 14. Moskva, Medgiz,
1963. 322 p.
(MIRA 18:2)

1. Vsesoyuznyy s"yezd gigienistov i sanitarnykh vrachey.
14th. 2. Glavnyy uchenyy sekretar' AMN SSSR (for Zhdanov).

POKROVSKIY, A.A.; BOGDANOVA, I.M.

Characteristics of the secretion of proteolytic enzymes of
gastric juice in various diseases. Vop. med. khim. 9 no.2:
217-218 Mr-Ap '63. (MIRA 17:8)

1. Institut pitaniya AMN SSSR, Moskva.

POKROVSKIY, A.A., prof.

Eat right. Zdorov'e 9 no.5:12-14 My'63.

(MIRA 16:9)

1. Chlen-korrespondent AMN SSSR.
(NUTRITION)

LOZOVOY, D.A., kand. tekhn. nauk; POKROVSKIY, A.A., inzh.

A book for workers and innovators. Avt. dor. 26 no.6:31 Je '63.
(MIPA 16:8)
(Road machinery)

POKROVSKIY, Aleksey Alekseyevich, prof.; LYADOVA, V., red.

[Talks about nutrition] Besedy o pitanii. Moskva,
Ekonomika, 1964. 286 p. (MIRA 18:6)

1. Chlen-korrespondent AMN SSSR (for Pokrovskiy).

POKROVSKIY, A.A.

Some problems in the science of nutrition in the light of the decisions of the December Plenary Session of the Central Committee of the Communist Party of the Soviet Union on the development of chemical heavy industry. Vest. AMN SSSR. no.4: 80-87 '64. (MIRA 18:8)

1. Institut pitaniya AMN SSSR, Moskva.

L 8432-65 EWT(1)/ENA(b) Pa-4 AS(mp)-2/AMD/AFMD/APUU(c)/AFWL RO
ACCESSION NR: AP4044250 S/0240/64/000/008/0053/0060

AUTHOR: Pokrovskiy, A. A. (Professor); Ponomareva, L. G.

TITLE: A high-speed, fermentation method of microanalysis for identification of residual amounts of organophosphorous insecticides⁸

SOURCE: Gigiyena i sanitariya, no. 8, 1964, 53-60

TOPIC TAGS: organophosphorous compound, insecticide, microanalysis, anticholinesterase, chromatography

ABSTRACT: A simple, highly sensitive method of group analysis has been developed for the identification of organophosphorous insecticides in the external environment based on their anticholinesterase properties. For this purpose a portable kit has been devised containing stable reagents good for 100 analyses. Preliminary analysis of contamination by insecticide can be performed under field conditions in 10—20 min. The anticholinesterase reactions of the six most important insecticides have been studied, and calibrated curves have been constructed for their determination. Without preliminary activation the method makes it possible to determine amounts from

Card 1/2

L 8432-65

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1 to 100 µg of insecticides per ml. The anticholinesterase action of chlorophosphorus gradually increases while it's being dissolved in buffer solutions at pH 7.4 and being extracted from plants. This, apparently, can be explained by the transformation of the insecticide into a compound with high anticholinesterase properties. It has been possible with paper with anticholinesterase properties to use chromatographic methods to identify the chemical nature of organophosphorous insecticides. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: Laboratoriya klinicheskoy enzimologii Instituta pitaniya AMN SSSR, Moscow (Laboratory of Clinical Enzymology of the Institute of Nutrition, AMN SSSR)

SUBMITTED: 16Jan64

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Card 2/2

MARKOVA, M.N.; POKROVSKIY, A.A.

Determination of total cholesterol and phospholipids in a micro-drop of blood. Lab. delo 10 no.3:145-150 '64. (MIRA 17:5)

1. Institut pitanya (direktor - chlen-korrespondent AMN SSSR prof. A.A.Pokrovskiy) AMN SSSR, Moskva.

POKHROVSKIY, A.A.

Problem of the determination of human nutritive requirements.
Vest. ANN SSSR 19 no.5:3-12 '64. (MEPA 12:3)

I. Institut pitaniya ANN SSSR, Moskva.

ЛОНДОНСКИЙ, А.А.; БАШЛ, Н.А.; СОЛОВЬЕВ, Г.А.

Dietetic principles of the treatment of obesity. Vestn. Akad. Med. Nauk SSSR no.5:63-69 1964.
(Med. 17:3)

1. Institut pitaniya ANN SSSR, Moskva.

POKROVSKIY, A.L.

Biochemical basis for developing products with increased
biological value. Vop. pit. 23 no.1:3-16 Ja-F '64.
(MIRA 17:8)
1. Institut pitaniya AMN SSSR, Moskva.

POKROVSKIY, A.A.; KOROBKINA, G.S.; NEMENOVA, Yu.H.; GIUSHNEVA, Z.Ya.;
LUKASIK, I.S.; ALEKAYEV, N.S..

Belip, a protein product from the Institute of Nutrition of the
Academy of Medical Sciences of the USSR. Vop. pit. 23 no.2:21-30
(MIRA 17:10)
Mr-Ap '64.

1. Institut pitaniyu AMN SSSR, Moskva.

POKROVSKIY, A.A.; ABRAROV, A.A.

Peroxyde resistance of erythrocytes. Vop. pit. 23 no. 6144-49 N.D '64.
(MIRA 12:6)

1. Institut pitaniya AMN SSSR, Moskva i Uzbekskiy nauchno-issledo-
vatel'skiy institut gematologii i perelivaniya krvi, Tashkent.

POKROVSKIY, A.A., inzh.

Successful manual. Avt. dor. 27 no.2:28 F '64.

(MIRA 17:3)

POKROVSKIY, A.A.; PANCHENKO, L.F.

Processes of oxidation phosphorylation and oxidation of separate substrata in the mitochondria of the brain in experimental shock.
Dokl. AN SSSR 158 no.4:984-986 O '64.

(MIRA 17:11)

1. Vtoroy Moskovskiy gosudarstvennyy meditsinskiy institut im.
N.I. Pirogova. Predstavлено akademikom A.N. Bakulevym.

POKROVSKIY, A.A., prof., red.; SHTENBERG, A.I., prof., red.;
ORLOVA, N.V., red.

[Methods for the determination of pesticides in food
products] Metody opredeleniya pestitsidov v pishche-
vykh produktakh. Moskva, Meditsina, 1965. 139 p.
(MIRA 18:9)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut
pitaniya. 2. Chlen-korrespondent AMN SSSR i Institut
pitaniya AMN SSSR (for Pokrovskiy).

POKROVSKIY, A.A.

Some problems of the biochemistry of nutrition. Thur. VNO
10 no. 3:247-257 '65.
(MEMA 18:8)

1. Chlen-korrespondent AMN SSSR.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341630007-6

POKROVSKIY, A.A.; SHEYKMAN, M.B.; PILENITSYNA, R.A.

Study of the activity of lytic enzymes in the adipose tissue.
Vop. med. khim. 11 no.4:72-76 Jl-Ag '65. (MIRA IR.8)

I. laboratoriya klinicheskoy enzimologii Instituta gitanlyza
AMN SSSR, Moskva.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341630007-6"

POKROVSKIY, A.A.; PARAMONOVА, E.G.; NEMENOVА, Yu.M. (Moskva)

Alimentary factor in the prevention of cardiovascular diseases.
Vest. AMN SSSR 20 no.6:24-30 '65. (MIRA 18:9)

POKROVSKIY, A.A.; YERTANOV, I.D. (Moscow)

Susceptibility of dietary proteins to proteolytic enzymes in
vitro. Vop. pit. 24 no.3:38-44 My-Je '65.

(MIRA 18:12)

1. Laboratoriya klinicheskoy enzimoiogi (zav. - prof. A.A.
Pokrovskiy) Instituta pitaniya AMN SSSR, Moskva. Submitted
November 24, 1964.

ZHDANOV, D.A.; POKROVSKIY, A.A.; NIKITYUK, B.A.; ZILLE, L.N.

Nomograms for determining body weight by body length and chest circumference based on measurements of present adult population of Moscow. Arkh.anat., glist. i embr. 49 no.10:33-42 O '65.
(MIRA 18:12)

1. Kafedra anatomii cheloveka (zav. - chlen-korrespondent AMN SSSR prof. D.A.Zhdanov) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova i Instituta pitaniya AMN SSSR. Submitted Nov. 3, 1964.

POKROVSKIY, A.A.; ARCHAKOV, A.I.

Study of the effect of promazine on the solubilization of liver
acetylesterase (3.1.1.6) as affected by carbon tetrachloride.
Dokl. AN SSSR 160 no.5:1203-1205 F '65.

(MIRA 18:2)

1. Vtoroy Moskovskiy gosudarstvennyy meditsinskiy institut im.
N.I. Pirogova. Submitted October 12, 1964.

POKROVSKIY, Angolyar Aleksandrovich; ANDROSOV, A.A., kand.tekhn.nauk,
retseminant; NIKITIN, A.G., inzh., red.; UVAROVA, A.F., tekhn.red.

[Excavating and earthmoving machinery; brief practical handbook]
Zemleroino-transportnye mashiny; kratkii prakticheskii spravochnik.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostr.lit-ry, 1959. 149 p.
(MIRA 12:10)

(Earthmoving machinery)

POKROVSKIY, Angelyar Aleksandrovich; SIDORENKO, M.D., red.;
LUKASHEVICH, V.K., tekhn. red.

[Scrapers; brief manual] Skrepery; kratkii spravochnik. Saratov,
Saratovskoe knizhnoe izd-vo, 1961. 211 p. (MIRA 15:6)
(Scrapers)

POKROVSKIY, Angelyar Aleksandrovich; VOSKRESENSKIY, N.N., red.;
GORYACHKINA, R.A., tekhn. red.

[Road machinery for preparatory operations] Dorozhnye mashiny dlia
podgotovitel'nykh rabot. Moskva, Avtotransizdat, 1963. 74 p.
(MIRA 16:6)

(Road machinery)

POKROVSKIY, Angelyar Aleksandrovich; ZHIGALOV, A.T., nauchnyy red.;
YAKOVLEVA, V.I., red.; TOKER, A.M., tekhn. red.

[Handbook for the young scraper, bulldozer, and grader
operator] Spravochnik molodogo skreperista, bul'dozerista,
greiderista. Moskva, Proftekhizdat, 1963. 159 p.
(MIRA 16:5)

(Earthmoving machinery)

POKROVSKIY, A.A., inzh.

"Road construction machinery," a reference manual. Mekh. stroi. 21
no.3:30-31 Mr '64. (MIRA 17:3)

POKROVSKIY, A.A.; ARCHAKOV, A.I.; DEVICHENSKIY, V.M.; SHUMKINA, O.B.

Materials on the distribution of aldolases, transaminases and esterases
in liver cells. Dokl. AN SSSR 158 no.2:474-476 S '64.
(MIRA 17:10)

1. Predstavлено академиком А.Н.Бакулем.

OVCHINIKOV, A.A.: Voprosy i resheniya

Characterization of the changes in the enzymatic activity of muscle tissues in refraction therapy. Zhur. fiz. med. nauch. fiz. 1970, No. 127. Ja-F 166.

1. Laboratoriya klinicheskoy enzimologii Instituta glikozilya AMN SSSR.

POKROVSKIY, A.A., prof.

Some aspects of the use of enzymes in medicine. Zhur. VKHO
10 no. 6:648-658 '65 (MIRA 19:1)

(A)

L 25587-66 ENT(d)/EWP(h)/EWP(1)

ACC NR: AM6004821

Monograph

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27

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Sevrov, K. P.; Lozovoy, D. A.; Kabalkin, V. A.; Fomin, M. I.; Pokrovskiy, A. A.

Road construction machinery (Dorozhnostroitel'nyye mashiny) Moscow, Izd-vo "Mashinostroyeniye", 1965. 384 p. illus., biblio. Errata slip inserted. 10,000 copies printed. Textbook for students specializing in road construction machinery at institutions of higher learning.

TOPIC TAGS: highway engineering, excavating machinery, construction machinery, road
PURPOSE AND COVERAGE: The book describes the constructions of road building machines of Soviet manufacture (predominantly new models), and contains a brief review of the constructions of foreign machines as well as a description of original model designs. The main trends in the development of road building machinery are indicated. The purpose of the book was to help future engineers in the study of the construction of such machinery and is a textbook for students in courses of "Construction and Road Building Machinery and Equipment" and "Automobile Roads" of polytechnic and automobile-road institutes. It can also be used by engineers and technicians, mechanics, and constructors, during the operation of road-building machinery. It is intended to serve as a companion to the existing textbooks on the theory and design of machinery. Chapters 1, 2, and 4 were written by engineer A. A. Pikrovskiy, Ch. 3 by Candidate of Technical Sciences D. A. Lozov, Ch. 6 by Candidate of Technical Sciences K. P. Sevrov, Ch. 8 by Candidate of Technical Sciences V. A. Kabalkin, Chs. 9 and 10 by Candidate of Technical Sciences M. I. Fomin, Ch. 5 by Candidate of Technical Sciences N. L. Zhikharev, and Ch. 7 by B. N. Zakharov. The overall editor of

Card 1/2

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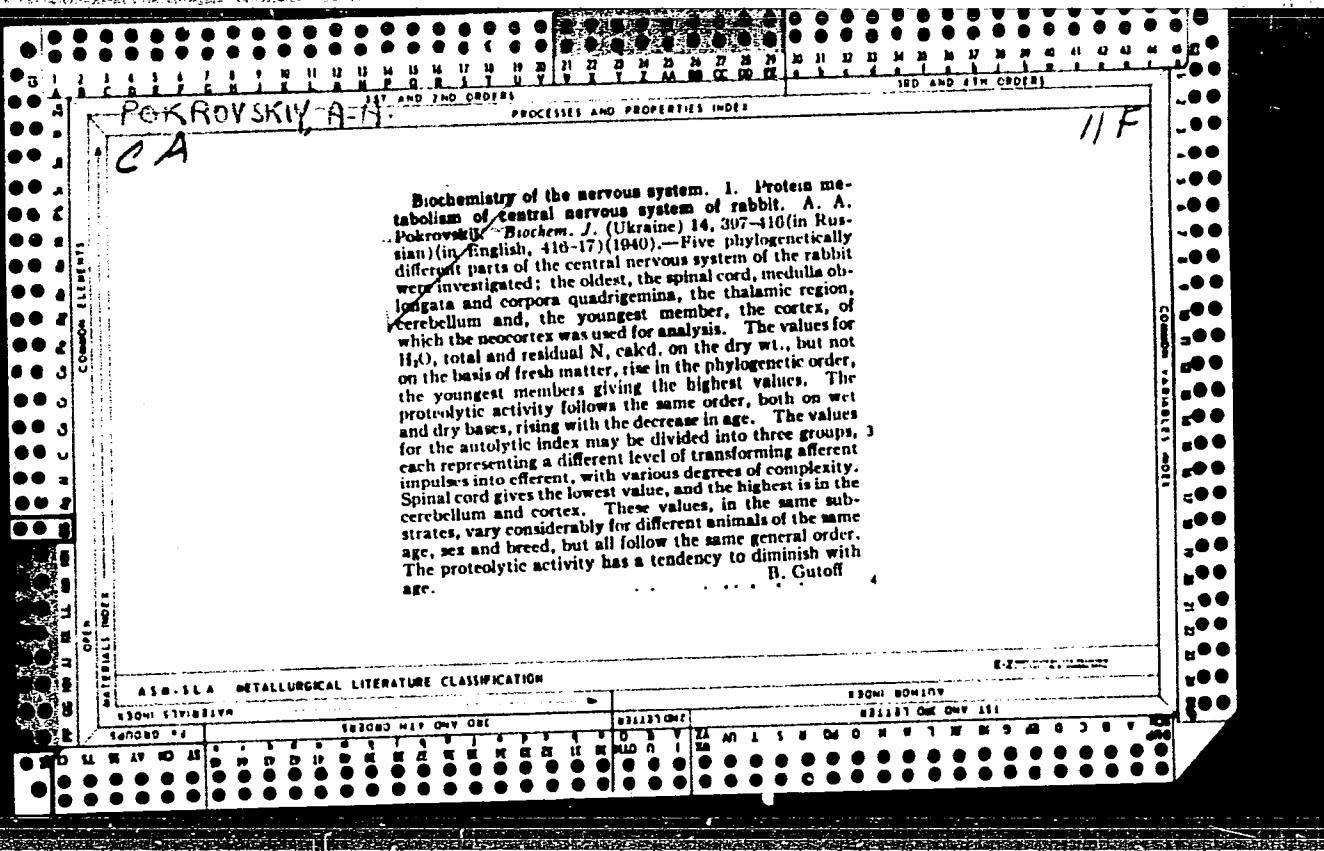
the textbook was Candidate of Technical Sciences, Professor K. P. Sevrov

TABLE OF CONTENTS [abridged]:

Section I.	Machines for preparatory and earth excavation work	- - 5
Ch. 1.	Propulsion means and control mechanisms	- - 5
Ch. 2.	Machines for preparatory work	- - 27
Ch. 3.	Machines for earth work	- - 45
Sec. II.	Machines for construction of road coverings using organic binding materials	- - 140
Ch. 4.	Equipment for transportation, storage, preparation, and pouring of organic binding materials	- - 140
Ch. 5.	Machines for mixing materials during transportation	- - 158
Ch. 6.	Machines for preparing and pouring asphalt-concrete mixtures	- - 188
Sec. III.	Machines for the construction of reinforced concrete road surfaces	- - 241
Ch. 7.	Machines and equipment for the preparation of concrete mixtures	- - 241
Ch. 8.	Machines for the construction of the base, pouring, compacting, and finishing concrete	- - 267
Sec. IV.	Machines for packing ground and road surfaces	- - 312
Ch. 9.	Machines for ground packing	- - 312
Ch. 10.	Machines for packing road surfaces	- - 353
Literature	- - 382	

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Cord 2/2 dda



POKROVSKIY, A.A.

(Reviewer)

"Biological action and therapeutic use of β -chloroethylamines and sulfides" [in English] (in Science v.103, no.2675, p.409, 1946).

A.Gilman, F.Philips. Reviewed by A.A.Pokrovskii. Farm.i toks.10

no.2:62-64 Mr-Ap '47.

(MLRA 7:2)

(Chloroethylamines--Therapeutic use) (Sulfides--Therapeutic use)

1. POKROVSKIY, A. A.
2. USSR (600)
4. Spectrum Analysis
7. Headpiece and cells for quantitative spectroscopy. Biokhimia 18, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

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CIA-RDP86-00513R001341630007-6

POKROVSKIY, A. A.

POKROVSKIY, A.A.; USACHEVA, N.T.

Apparatus for freezing areas of the skin on a whole animal. Vest,ven,i
derm, no.2:54 Mr-Ap '54. (MLRA 7:4)

(Medical instruments and apparatus)

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CIA-RDP86-00513R001341630007-6"

POKROVSKIY, A.A. POKROVSKIY, A.A.
POKROVSKIY, A.A.

A new fluorometric method for quantitative spectrometry.
A. A. Pokrovskii. Biokhimiya 19, 470-3(1954).—The
method takes into consideration the fact that in the estn. of
highly concd. fluorescent substances, greater sensitivity is
obtained with cups of a small cross section; in low concns., a
greater sensitivity and a higher degree of accuracy are ob-
tained with cups of larger cross section. B. S. Levine

POKROVSKIY, A-A-

U

U.S.S.R.

Quantitative spectroscopy with the aid of a pocket spectroscope. A. A. Pokrovskii. Byull. Eksp. Biol. i Med. 38, No. 8, 69-9 (1954).—The construction of a pocket spectroscope is described in detail. The advantages are low cost, small vol. of fluid to be tested, and close proximity of unknown and standard spectra. With the aid of the spectroscope it is possible to estimate the hemoglobin of small animals or the amt. of blood sucked by insects.

S.M.W. A. M. M. P.

POKROVSKIY, A-A.

USSR.

A method for the permanent recording of chromatographic results. A. A. Pokrovskiy. Byull. Èksperim. Biologii i Èkologii, No. 12, 69-70 (1954).—Negative prints are made of the original chromatograms on highly sensitive photographic paper after the R_f value and other pertinent data have been noted, and recorded on the original chromatogram. The

relative intensity of the localized spots as a factor for the calcd. of quant. protein values is faithfully reproduced. Unlike the original ninhydrin-developed spots, the white spots on the negative record retain their area ramifications and intensities almost indefinitely. The formula $S = a \log Cb$ is used in the quant. estn. of the amino acids; where S is the surface area, C is the protein concn., and a and b are empirical consts.

B. S. Levine

POKROVSKIY, A. A.

✓The quantitative evaluation of inflammatory reactions in experimental studies. A. A. Pokrovskii and V. I. Sosina (Central Sci. Research Exptl. Inst. Military Med., Moscow). Arkh. Patol. 18, No. 2, 91-9(1960).—A method is described for the quant. evaluation of changes in the permeability of capillaries which is based on measuring the intensity of fluorescence of protein complexes that enter into tissue spaces in the course of a developing inflammatory process.

B. S. Levine

POKROVSKIY, A. A.

✓ Study of the kinetics of methemoglobin content in the blood of small animals. A. A. Pokrovskiy, farmakol. i med.

Toxikol. 19, No. 4, 63-7 (1956).—Quantit. spectroscopy offers the basis for microdetermin. of blood pigments. A method has been developed for determin. of methemoglobin in 5 cu. mm. of blood; it is especially useful for following changes in methemoglobin content in the blood of small test animals.

Julian P. Smith

POKROVSKY, A-A.

✓The effect of the alkaloids of the sprouting potato on cholinesterase. A. A. Fokrovskii (S. M. Kirov Military Med. Acad., Leningrad). *Biokhimiyu* 21, 683-8 (1960).—The water exts. of the sprouting potato tubers suppress the activity of the non-specific blood serum cholinesterase. The glycosalkaloids of the Solanaceae, solanine and tomatine, used in low concns. have a definite arresting effect on the activity of the non-specific cholinesterase. The aglycone, solanidine, constitutes the main group of solanine which exerts the anticholinesterase effect. With the true cholinesterase of the brain, solanine exerts only a slight effect. The antiesterase property of solanine can be used as the basis for the development of methods for the identification of biologically harmful concns. of solanine in potatoes.

B. S. Levine

POKROVSKIY, A.A., GORKIN, V.Z.

Conference on the protein problem. Vop.med.khim. 4 no.3:236-239
My-Je '58 (MIRA 11:6)
(PROTEINS)

POKROVSKIY, A.A.

Use of enzymes in the detection of biologically harmful agents
[with summary in English]. Vop.med.khim. 4 no.4:292-297 Jl-Ag '58.
(MIRA 12:2)

1. The "S.M. Kirov" Military Medical Academy, Leningrad.
(PHOSPHATES, determination,
insecticide prep., cholinesterase technic (Rus))
(CHOLINESTERASE,
phosphate insecticides determ. (Rus))

POKROVSKIY, A.A. (Leningrad)

Mechanism of the development of an inflammatory reaction. Arkh.
pat. 21 no.7:13-19 '59. (MIRA 13:5)

1. Iz Vojenno-meditsinskoy ordena Lenina akademii imeni S.M.
Kirova.
(INFLAMMATION)

POKROVSKIY, A.A.

Paper electrophoresis studies; counterelectrophoresis in the enzyme-substrate system. Biokhimiia 24 no.2:291-300 Mr-Ap '59. (MIRA 12:?)

1. The Military-Medical Academy.

(ELECTROPHORESIS,

counter-electrophoresis in enzyme-substrate system (Rus))

POKROVSKIY, A.A., professor, polkovnik meditsinskoy sluzhby

Method for the rapid determination of the cholinesterase activity
of the blood. Voen.-med. zhur. no. 1:34-39 Ja '60.

(MIRA 14:2)

(CHOLINESTERASE) (COLORIMETRY)

POKROVSKIY, A.A. (Moskva)

Significance of enzymatic methods in the diagnosis of diseases.
Vop. med. khim. 6 no.3:228-243 My-Je '60. (MIRA 14:3)
(ENZYMES) (MEDICINE, INTERNAL)

MARDASHEV, Sergey Rufovich; POKROVSKIY, Aleksey Alekseyevich; PAVLOVA,
Nina Aleksandrovna; KAPYSHEVA, V.S., red.; YEZHOOVA, L.L.,
tekhn. red.

[Laboratory demonstrations for lectures on biological chemistry;
manual for teachers] Demonstratsii k lektsiiam po biologicheskoi
khimii; posobie dlja prepodavatelei. Moskva, Gos.izd-vo "Vysshiaia
shkola," 1961. 142 p.
(Biochemistry—Study and teaching)

POKROVSKY A.A. (USSR)

"Enzyme Topography of the Brain."

Report presented at the 5th Int'l Biochemistry Congress,
Moscow, 10-16 Aug. 1961.

POKROVSKIY, A.A.; PONOMAREVA, L.G.

Distribution of cholinesterases in the brain of rhesus monkeys.
Biokhimiia 26 no.2:276-280 Mr-Ap '61. (MIRA 14:5)

1. Central Research Testing Institute of the Military Medicine,
Moscow.
(CHOLINESTERASE) (BRAIN) (MONKEYS)

POKROVSKIY, A.A.

Methods for determining the specific and nonspecific cholinesterase in a blood microdrop. Biul. eksp. biol. i med. 51 no.6:99-104 Je '61. (MIRA 15:6)

1. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.
(CHOLINESTERASE)

POKROVSKIY, A. A. (Moskva)

Enzymatic mechanism of some intoxications; tentative enzymatic
classification of poisons. Usp. biol. khim. 4:61-80 '62.
(MIRA 15:7)

(POISONS)

POKROVSKIY, A.A., prof.

Microscopic express methods for determining enzymatic activity and its
diagnostic value. Biul. Uch. med. sov. 3 no.2:8-12 Mr-Ap '62.
(MIRA 15:4)

1. Chlen.korrespondent AMN SSSR.
(DIAGNOSIS) (ENZYMES)

POKROVSKIY, A.A., prof.

You didn't forget about them? Zdorov'e 8 no.10:11 0 '62.
(MIRA 15:10)
(VEGETABLES)

SEVROV, K.P., kand. tekhn. nauk; LOZOVOY, P.A., kand. tekhn. nauk; KABALKIN, V.A., kand. tekhn. nauk; FOMIN, M.I., kand. tekhn. nauk; POKROVSKIY, A.A., inzh.; BROMBERG, A.N., doktor tekhn. nauk prof., retsenzent

[Road construction machinery] Dorozhnostroitel'nye mashiny. Moskva, Mashinostroenie, 1965. 384 p.
(MIRA 19:1)

SUKHORUKOV, V.V.; POKROVSKIY, A.D.

Electric inductive two-frequency fault detector. Zav. lab. 31
no.11:1404-1406 '65. (MIRA 19:1)

1. Moskovskiy energeticheskiy institut.

POKROVSKIY, A.F.

ATABEKOV, D.N., professor, laureat Stalinskoy premii.

Discussion on A.F.Pokrovskii's article, "New suture method for the
ureters." Akush.i gin. no.1:76 Ja-F '54. (MLRA 7:6)
(Ureters--Surgery) (Sutures)

POKROVSKIY, M.F.

BLINOVA, V.N.; DEMIDOV, A.A.; KOLIN, Ya.S.; MAKUSHKIN, Ya.G.; MYZIN, L.M.;
PERMYAKOV, N.P.; PONEDILKO, A.I.; BOROVIK, Z.G.; YEFREMOV, I.A.;
KOPAYGORODSKIY, A.B.; MARINOV, A.M.; NEKHOROSHKOVA, O.I.; POKROVSKIY,
A.F.; ROMANOVSKIY, A.A.; RASSADNIKOV, Ye.I., red.; SAVEL'YEV, V.I.,
red.; FRIDKIN, A.M., tekhn.red.

[Electric power in the Urals during the past 40 years] Energetika
Urala za 40 let. Moskva, Gos. energ. izd-vo, 1958. 141 p.
(MIRA 11:5)

(Ural Mountain region--Electric power)

AUTHORS:

1) Marinov, A. M., Engineer, Myzin, L. M. 105-58-6-26/33
Engineer, Pokrovskiy, A. F., Engineer
2) Belousov, M. M., Candidate of Technical Sciences

TITLE:

The Underlying Principles of the Uniform Power System of the European Part of the USSR (Osnovy yedinoy energeticheskoy sistemy evropeyskoy chasti SSSR)

PERIODICAL:

Elektrичество, 1958, Nr 6, pp. 88 - 91 (USSR)

ABSTRACT:

This is a comment on the article by V. I. Veyts in Elektrичество, 1957, Nr 1; 1) In the elaboration of a uniform power system its scheme must not be projected starting only and mainly from large power plants. In spite of the gigantic dimensions in the construction of the hydroelectric power plants their specific share in the power economy at the end of the sixth five-year-plan will only amount to 18%. At present thermal power plants with 1 to 1,5 million kW are built in the east, at the Ural and in the south. At first the question has to be answered: what can more conveniently be conveyed - fuel or electric energy? Coal with an ash content of 40% has recently been conveyed from the Ekibastuz basin ($75^{\circ}30'$ east longitude $51^{\circ}40'$ north latitude) to the Ural. Large thermal power plants

Card 1/4

The Underlying Principles of the Uniform Power System of the
European Part of the USSR

105-58-6-26/33

should be constructed in the Ekibastuz basin and electric energy should mainly be conveyed to the Ural. Open-work mining was begun in the coal basin of Kushmurun ($64^{\circ}30'$ east longitude, $52^{\circ}30'$ north latitude) of the Kustanay region. The brown coal of this deposit also has a high ash content. New electric power plants which are supplied with this coal are built at the Ural. At the same time electric power plants with 1,2 to 2;4 million kW are projected in the Kustanay region. It had to be determined what can more advantageously be conveyed from Kushmurun to the Ural: coal or electric power. The transfer of electric energy from Siberia to the Ural and farther to the west of the country must not only be brought into accordance with the hydroelectric power plants but also with the working of the large coal deposits in the Asiatic part of the country and with the construction of large thermal power plants. A principal scheme for the connection between Ural and Siberia is given here. According to this scheme two large longitudinal connections in the direction of Omsk-Tyumen'-Sverdlovsk and Omsk-Petropavlovsk-Chelyabinsk should be established. Along the main railroad lines a 110 kV distribution network consisting of two-circuit lines of intermediate and cen-

Card 2/4

The Underlying Principles of the Uniform Power System of the European Part of the USSR 105-58-6-26/33

tral substations with 110 kV is to be set up. For increasing the transmitting power of the 110 kV lines the possibility of changing them to a 154 kV voltage (where necessary) is to be investigated. - At present distributing networks with 110 kV are built in the section of Novosibirsk-Omsk-Kurgan-Chelyabinsk. The disregard of the development of 6 kV, 35 kV and 110 kV networks led to the fact that a large number of small uneconomic plants exist beside large electric power plants and that a considerable number of inhabited places is without power supply. These consume much fuel and need much personnel. An immediate solution of the problem concerning the construction of the hydroelectric power plant at the lower Ob' and the strengthening of the hydroelectric power plants at the Kama is demanded. The works by the Gidroproyekt show that it would be possible to establish a hydroelectric power plant with several million kW at the lower Ob' in the Region of Salekhard (town at the polar circle, on the Ob'). For the next 10 years the Kama and its water basin will represent the main source of the power system of the Ural. The work of the hydroelectric power plants Votkinskaya and Nizhne Kamskaya have recently been check-

Card 3/4

The Underlying Principles of the Uniform Power System of the European Part of the USSR 105-58-6-26/33

ed. 2) The first and most important task consists in the connection of the small and average power systems with the large ones and in the establishment of the 110 and 35 kV networks for supplying all places and industries by the large power systems. The opinion that the problems on the construction of inter-system lines with 400 kV can be dealt with independently of the problems of the development of 110-220 kV networks is wrong. The only reasonable basis for projecting a uniform high-voltage network is a joint plan for the development of the power systems, the 110 - 220 kV networks and the 400 - 500 kV networks. There is 1 figure.

1. Industry--USSR
2. Water power--USSR
3. Electric power production--USSR

Card 4/4

L 26711-66 EWT(d)/FBD/EWT(l)/EWP(e)/EWT(m)/EBC(k)-2/T/EWP(k)/EWA(h) IJP(c)

ACC NR: AP6015443 WG/WH

SOURCE CODE: UR/0051/66/020/005/0921/0923

AUTHOR: Pokrovskiy, A. G.; Filippova, M. A.

61

B

ORG: none

TITLE: A theoretical study of controlling ruby laser generation by means of a modulated traveling ultrasonic wave diffraction modulator

SOURCE: Optika i spektroskopiya, v. 20, no. 5, 1966, 921-923

TOPIC TAGS: laser, solid state laser, ruby, coherent light, light modulation diffraction, modulator

ABSTRACT: A theoretical analysis is conducted of experiments described elsewhere (Optika i spektroskopiya, v. 20, no. 5, 1966, 924) in which a laser beam was modulated by an ultrasonic wave in a diffraction modulator placed between the ruby laser rod and the external mirror of an interferometer. Using a computer, the authors calculated the emission intensity, population inversion, and beam attenuation from a ruby laser modulated by ultrasonic waves for the cases of sinusoidal and square modulation frequencies. The results obtained are in good agreement with the experimental data, i.e., it was shown that the pulse should consist of a regular sequence of pulsation packets. The number of relaxations per packet should decrease with increasing

Card 1/2

UDC: 621.375.9:535+534.321.9

2

L 26711-66

ACC NR: AP6015443

modulation frequency until at some high frequency some packets will not be generated.
Orig. art. has: 3 formulas and 3 figures. [CS]

SUB CODE: 20/ SUBM DATE: 18Feb65/ ORIG REF: 001/ OTH REF: 003/ ATD PRESS: 4258

Card 2/2 ✓

POKROVSKIY, Aleksei Ivanovich, 1880-

Collected works marking the 40th anniversary of M.I Averbakh's scientific activity. Moskva,
Gos. izd-vo biologicheskoi i med. lit-ry, 1935. 596 p. (55-52234)

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Clinical findings in acute forms of glaucoma. Vest. oft. 21 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1952, 1953, Uncl.

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postoperative restoration of sight according to works
of I.P. Pavlov. Vest. oft., Moskva 32 no.6:6-17
Nov-Dec 1953. (CIML 25:5)

1. Honored Worker in Science, Professor, Director of the
Eye Clinic of Voronezh Medical Institute.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341630007-6

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Clinical observations of severe glaucoma. Vest.oft. 34 no.1:3-9
Ja-F '55 (MIRA 8:4)

(GLAUCOMA,
severe, clin. picture)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341630007-6"

POKROVSKIY, A.I., zasluzhenny deyatel' nauki, professor.

~~Pathogenesis of conjunctival and corneal changes in trachoma.~~
Vest. oft. 34 no.4:5-10 Jl-Ag '55. (MLRA 8:10)

1. Direktor glaznoy kliniki Voronezhskogo meditsinskogo instituta.
(TRACHOMA, pathology,
conjunctive & cornea)

YEVSTYUGOV, Aleksandr Ivanovich, inzh.; FOKROVSKIY, Aleksandr
Il'ich, inzh.; KREYNDLIN, L.N., nauchn. red.; STAROSVETOVA,
V.G., red.

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shkola, 1965. 300 p. (MIRA 18:4)

INKER, Michel' [Hincker, Michel]; NOVIKOV, R.A.[translator]; KHOLINA,
N.I.[translator]; POKROVSKIY, A.I., red.; KISELEVA, V.I.,
red.; KHOMYAKO, A.D., tekhn. red.

[New aspects of financial oligarchy in France] Novye cherty fi-
nansovoi oligarkhii vo Frantsii. Obshchaia red. i predisl.
A.I.Pokrovskogo. Moskva, Izd-vo inostr. lit-ry, 1960. 137 p.
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(Dnieper-Donets Lowland—Gas, Natural—Geology)

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ekon.nauk [deceased]; RUMYANTSEV, A.M., prof.; KORNIYENKO, A.A.,
dotsent, kand.ekon.nauk; SHNEYERSON, A.I., prof., doktor ekon.nauk;
LIF, Sh.B., prof., doktor ekon.nauk; SHVEDKOVA, G.M., kand.ekon.
nauk; FISHEVSKIY, Yu.K.; DVORKIN, I.N., doktor ekon.nauk; SIDOROV,
I.F.; KHAFIZOV, R.Kh., kand.ekon.nauk; NIKOLAYEV, A.B., kand.ekon.
nauk; AVRAMCHUK, F.P., kand.ekon.nauk; AL'TER, L.B., doktor ekon.
nauk; BOYARSKIY, A.Ya., prof., doktor ekon.nauk; BREGEV', M.Ya.,
prof., doktor ekon.nauk; ARZUMANYAN, A.A.; VOLODIN, V.S., dotsent,
kand.ekon.nauk; MIKSHA, L.S., kand.ekon.nauk; BUNKINA, M.K.,
dotsent, kand.ekon.nauk; LEVREYSKOV, A.V., kand.ekon.nauk; FADEYEVA,
T.A., kand.ekon.nauk; KOLGANOV, M.V., prof., doktor ekon.nauk;
KHROMUSHIN, G.B., kand.ekon.nauk; MOSHENSKIY, M.G., kand.ekon.nauk;
IVANOV, N.N., kand.ekon.nauk; GUTTSAYT, M.G., dotsent, kand.ekon.
nauk; ABOLTIN, V.Ya., prof., doktor ekon.nauk; KOLLONTAY, V.M.,
kand.ekon.nauk; GLUKHAREV, L.I., kand.ekon.nauk; POKROVSKIY, A.I.,
kand.ekon.nauk; DADASHEV, G.A., dotsent, kand.ekon.nauk; ALESHINA,
I.V., kand.ekon.nauk; ZHAMIN, V.A., dotsent, kand.ekon.nauk;

(Continued on next card)

TSAGOLOV, N.A.--(continued) Card 2.

KOZLOV, A.P.; TIMOFEEV, T.T., kand.istor.nauk; ALEKSEIEV, A.M.,
dotsent, kand.ekon.nauk; FILATOVA, Ye.M., dotsent, kand.ekon.nauk.
Prinimali uchastiye: VOLKOV, F.M., kand.ekon.nauk; KHROMUSHIN,
G.B.; VOZNESENSKIY, L.A., nauchnyy sotrudnik. SPKRANSKAYA, I., red.;
CHEPELEVA, O., tekhn.red.

[Criticism of present-day bourgeois, reformist, and revisionist
economic theories] Kritika sovremennoykh burzhuaznykh, reformistskikh
i revizionistskikh ekonomicheskikh teorii. Pod red. N.A.TSagalova.
Moskva, Izd-vo Sotsial'no-ekon.lit-ry, 1960. 588 p. (MIRA 13:5)

1. Moscow. Universitet. 2. Chlen-korrespondent AN SSSR (for Arzumanyan).

(Economics)

KUCHER, Aleksandr Mikhaylovich; KIVATITSKIY, Mikhail Moiseyevich;
POKROVSKIY, Antoniy Aleksandrovich; SHAVLYUGA, N.I., kand.
tekhn.nauk, red.; VAEKOVETSAYA, A.I., red.izd-va; SHCHE-
TININA, L.V., tekhn.red.

[Metal-cutting machine tools; brief descriptions of kinematic
systems. Supplement to posters Set No.3: Planing, broaching,
grinding, and gear-cutting machines] Metallorezrushchies stanki;
kratkoе opisanie kinematiskikh skhem. Prilozhenie k plakatam
Seriia III: Strogal'nye, spotiazhnye, shlifoval'nye i zuboobrabaty-
vaiushchies stanki. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroi-
lit-ry, 1959. 46 p. [Set of posters: "Kinematic systems of
metal-cutting machine tools."] Seriya plakatov: "Kinemati-
cheskie skhemy metallorezrushchikikh stankov." 13 diagr.

(MIRA 13:5)

(Machine tools)

GLUSHKOV, V.P., kand. ekon. nauk; POKROVSKIY, A.I., kand. ekon. nauk; VEBER, A.B., kand. istor. nauk; VASIL'KOV, N.P., kand. ekon. nauk; ARDAYEV, G.B., kand. ekon. nauk; TIMASHKOVA, O.K., kand. ekon. nauk; KEMEL'-NITSKAYA, Ye.L., doktor ekon. nauk, otd. red.; PANTELEYEV, V.I., red. izd-va; RYLINA, Yu.V., tekhn. red.

[Government ownership in Western Europe] Gosudarstvennaja sobstvennost' v stranakh Zapadnoi Evropy. Moskva, Izd-vo Akad. nauk SSSR, 1961. 463 p. (MIRA 14:11)

1. Akademija nauk SSSR Institut mirovoy ekonomiki i mezhunarodnykh otnoshenij. 2. Sektor stran Zapadnoj Evropy Instituta mirovoy ekonomiki i mezhunarodnykh otnoshenij AN SSSR (for all except Panteleyev, Rylina).

(Europe, Western--Government ownership)

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Defense of Dissertation (Jan-Jul 1957)
Sect. of Economy, Philosophy, and Jurisprudence
Vest. AN SSSR, 1957, v. 27, No. 12, pp. 126-128

POKROVSKIY, A.I.

PHASE I BOOK EXPLANATION

SOV/411

Konferentsiya po voprosam teorii i prikladnykh diskretnykh avtomaticheskikh sistem.
Moskva, 1972

Theory & Application of Discrete Automatic Systems; truly konferentsiya
(theory and application of Discrete Automatic Systems; Translations of the
conference) Moscow, in USSR, 1972. 572 p., 5,000 copies printed.

Sponsoring Agent: Akademija nauk SSSR. National'nyj knigovod SSSR po avtomati-
cheskim upravlenijm. Institut avtomatyki i upravlenija.

Editorial Board: M. V. Gor'kov, Doctor of Technical Sciences, Yu. V. Dolgolenko,
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Sciences), Rasp. Min. Tsel. i Razv. Nauk, Director of Technical Institute, S. G. Matovitch,
Sciences; Ed. of Publishing House M. N. Podgornyj Tech. Ed. - S. G. Matovitch.

PURPOSE: These transactions are intended for the members of the conference and
other specialists in automatic control.

CONFERENCE: The Conference on the Problems of Theory and Application of Discrete
Automatic Systems took place in Moscow from September 22 to 26, 1972. In over
the first conference devoted to discussions of the problems of the theory
and techniques of discrete automatic systems and to planning for future development
of these systems. The papers discussed at the conference have been divided into four groups.
In the first group optimisation methods of switching circuits are discussed as well as methods
of relay control systems, in particular plant-like control systems in which are
realized optimal processes as to quick response. The second group of papers is
devoted to the analysis and synthesis of pulse systems with variable parameters,
of problems with several pulse components, to the study of self-oscillation
phenomena in nonlinear pulse systems and to methods of calculating linear
pulse systems. Problems of simulating pulse systems and descriptions of some
digital elements. Problems of using devices of digital technique in digital
computers for the simulation of various fields of engineering. A few original
papers, mainly radio communication systems, metallography, are discussed. Problems
of discrete control conversion and vice versa as well as problems of designing
applied digital control systems have been included in this group. The fourth
group of papers includes theoretical, structural, algorithmic and certain practical applications
of the simplest types of switching pulse and logical devices. Here are also found
papers describing various methods of investigating steady state conditions in
optimization problems, results of studying the effects of random factors on the
processes of automatic synthesis and examples of existing optimization control
systems. Some of the more interesting communications and observations will during
the discussion of the various conference papers have also been included in
the publications. References accompanying most of the papers.

Table of Contents:

1. Frequency-Response Method in Designing Linear Systems of Pulse Regulation. 172
The author discusses the use of frequency-response methods for designing pulse
systems of the first type, according to T. I. Turkin, but with a finite
time of pulse surveying. There are 10 references: 8 Soviet and 2 English.

2. Determination of Discrete Filters. 184
The author presents the solution of a problem consisting of the determination
of the weight function of a pulse or digital pulse control system, when necessary,
this method permits obtaining an optimising process. There are 13 ref-
erences: 7 Soviet and 6 English.

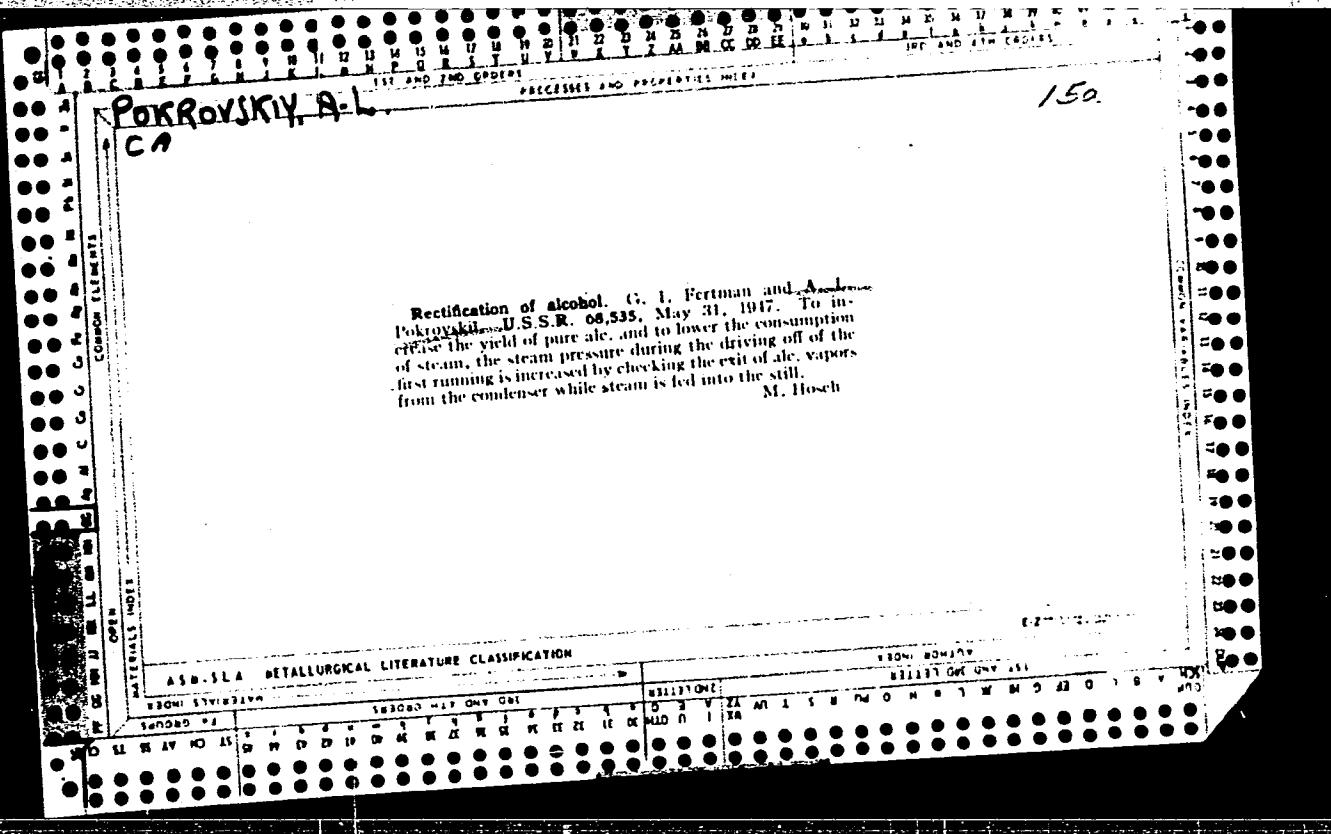
3. Frequency-Response Method in Designing Frequency-Response Methods in Designing
Linear Systems of Pulse Regulation. 172
The author discusses the use of frequency-response methods for designing pulse
systems of the first type, according to T. I. Turkin, but with a finite
time of pulse surveying. There are 10 references: 8 Soviet and 2 English.

4. Determination of Discrete Filters. 184
The author presents the solution of a problem consisting of the determination
of the weight function of a pulse or digital pulse control system according to the art-
terior of a minimum of error dispersion with given error coefficients. There
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 PERNIKHOV, M. A. - "Principles of construction of digital double code automatic computers".
 SHTRAMK, Yu. I. - "Concerning the theory of automatic regulation with the parameters of periodic movements".
 SHIMANOV, M. S., and KRUGLOV, V. I. - "Systems of automatic control of cutting or rolled metal on a continuous bar mill with the use of digital calculating machines".
 SHURGINOV, V. V. - "Some principles of organizing systems of complex automation of large scale chemical production and optimization of these systems".
 SOKOLOVSKIY, G. M. - "Systems of automatic regulation with intermittent change of parameters".
 TROFIMOV, V. F. - "Statistical synthesis of impulse systems".
 TROFIMOV, B. M. - "The invariant principle and its application in the calculation of linear and nonlinear systems".
 TROFIMOV, V. D. - "The problem of autonomy in the technique of automatic control".
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 SOKOLOVSKIY, Ya. Z. - "Elements of the theory of digital automatic systems".
 VASIL'YEV, D. B., PASHKIN, V. A., CHUDIN, Yu. I., and GUDSOVA, G. A. - "Static stability of telemeasuring".
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FADEYEV, Sergey Pavlovich [deceased]; ZYBIN, V.P., doktor tekhn.
nauk, retsenzent; POKROVSKIY, A.M., kand. tekhn. nauk,
dots., nauchn. red.; KOLODYAZHNAYA, Zh.A., red.

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detalei mashin; sbornik zadach. Moskva, Vysshiaia shkola,
1964. 180 p. (MIRA 18:3)

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(for Zybin).

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dots., nauchn. red.; FUFAYEVA, G.I., red.

[Preparation of a course project on machine parts] Kurso-
voe proektirovanie detalei mashin. Moskva, Vysshiaia shkola
1964. 302 p. (MIRA 18:2)

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zaochnogo mashinostroitel'nogo instituta (for Zybin).

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Calculation of the weight function of a sampled-data system using
a known transfer function of an analog system. Izv. Akad SSSR. Tekh.
kib. no.3:129-133 Je '64.

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MENZHINSKIY, Ye.A.; SEROVA, L.V.; POKROVSKIY, A.N.;
PEVZNER, Ya.A.; LEBEDEV, B.I.; VLADIMIRSKIY, L.K.;
MATYUKHIN, I.S.; ROGOV, V.V.; PISKOPPEL', F.G., doktor ekon.
nauk, prof., red.; SHLENSKAYA, V.A., red.izd-va; ZINCHENKO,
V.S., red.izd-va; PAVLOVSKIY, A.A., tekhn. red.

[Foreign trade of capitalist countries] Vneshniaia torgovlia
kapitalisticheskikh stran. [By] I.S.Potapov i dr. Moskva,
Vneshtorgizdat, 1963. 456 p. (MIRA 16:9)
(Commerce)

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its evaluation on the basis of forensic psychiatry. Probl.
sud. psikh. no.13:168-177 '62. (MIRA 18:9)

POLYANIN, D.V.; ZOTOV, G.M.; GRYAZNOV, E.A.; MENZHINSKIY, Ye.A.; RUBININ, A.Ye.; CHEBOTAREVA, Ye.D.; ZAKHMATOV, M.I.; OKUNEVA, L.P.; SHMELEV, V.V.; STULOV, A.A.; POKROVSKIY, A.N.; SHIL'DKRUT, V.A.; IVANOV, A.S.; NABOROV, V.B.; FINOGENOV, V.P.; KUR'YEROV, V.G.; KHRAMTSOV, B.A.; BATYGIN, K.S.; BOGDANOV, O.S.; KROTOV, O.K.; GONCHAROV, A.N.; KRESTOV, B.D.; LYUBSKIY, M.S.; SOKOL'NIKOV, G.O.; KAMENSKIY, N.N.; YASHCHENKO, G.I.; SABEL'NIKOV, L.V.; GERCHIKOVA, I.N.; FEDOROV, B.A.; STEPANOV, G.P.; BORODAYEVSKIY, A.D.; INGATUSHCHENKO, S.K.; VARTUMYAN, E.L.; KAPELINSKIY, Yu.N.. red.; MAYOROV, B.V., red.; NABOROV, V.B., red.; SOLODKIN, R.O., red.; DROZDOV, A.G., red.; ROSHCHINA, L., red.; SOLOV'YEVA, G., mladshiy red.; CHEPELEVA, O., tekhn. red.

[The economy of capitalist countries in 1961; economically developed countries] Ekonomika kapitalisticheskikh stran v 1961 godu; ekonomicheski razvitye strany. Pod red. I.U.N. Kapelinskogo. Moskva, Sotsekgiz, 1962. 447 p. (MIRA 16:2)
(Economic history)

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Kandinskii's syndrome in chronic alcoholism; clinical observations.
Probl.sud.psikh. no.12:72-84 '62. (MIRA 16:4)
(ALCOHOLISM) (SCHIZOPHRENIA)

1. POKROVSKIY, A. N. ; MAGDEUROV, N. G.
2. USSR 600
4. Nets
7. Fastening wings of stationary nets by the ground line on Sakhalin, Ryb. Khos, 28, No. 12, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

GRINBERG, G.A. (Leningrad); POKROVSKIY, A.N. (Leningrad); UFLYAND,
Ya.S. (Leningrad)

Characteristic state of stress of an elastic thin wedge-shaped
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1. Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina.
(Elastic plates and shells) (Strains and stresses)

POKROVSKIY, A.N.

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ORKODASHVILI, L.F.; POKROVSKIY, A.N.

Clinical aspects and treatment of penetrating injuries of the cornea
in radiation sickness in dogs. Vest.oft. 70 no.3:10-13 My-Je '57.
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1. Kafedra oftalmologii (nach. - prof. B.L.Polyak) Voyenno-meditsinskoy ordona Lenina akademii imeni S.M.Kirova

(CORNEA, wds. and inj.

exper., eff. of x-irradiation on healing in dogs)

(ROENTGEN RAYS, eff.

on healing of exper. wds. of cornea in dogs)

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Fastening the wings of pound nets by vertical steel guy ropes.
Trudy VNIRO 41:159-161 '59. (MIRA 13:8)
(Fishing nets)

POKROVSKIY, Aleksandr Nikolayevich; BUKIN, Aleksandr Alekseyevich; GAV-
RILOV, Dmitriy Fedorovich; TOLKACHEV, S.S., retsenzent; GONCHA-
RUK, Yu.K., red.; STRYZHKOVA, N.I., red. izd-va; NIKOLAYEVA,
L.N., tekhn. red.

[Operating motortrucks with carburetor engines under low temperature
conditions] Ekspluatatsiia avtomobilei s karbiuratornymi dvigatelemi
v usloviakh nizkikh temperatur. Moskva, nauchno-tekhn. izd-vo M-va
avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 171 p.
(MIRA 14:10)

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S/044/62/000/006/104/127
B166/B112

16.8000

AUTHOR:

Pokrovskiy, A. N.

TITLE:

The use of digital computers for the statistical synthesis of automatic control systems

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 52-53,
abstract 6V260 (Sb. "Primeneniye vychisl. tekhn. dlya
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TEXT: When there are random actions the process of synthesizing optimum automatic control systems frequently contains stages requiring laborious calculations for which in a number of cases fast universal digital computers can be used. Cases in which the use of digital computers (d.c.) is expedient are examined, as well as questions associated with the efficiency of this use of d.c. An examination is made of the problem of synthesizing linear systems for a given transient period and given dynamic error coefficients when there are random disturbances in the criterion of minimum error dispersion. The problem is reduced to the solution of an integral equation of the form

Card 1/3

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B166/B112

The use of digital computers ...

$$\int_0^{T_H} R(t; \tau) w(\tau) d\tau = F(t)$$

for continuous systems, and for a discrete system to the solution of a system of equations of the form

$$\sum_{n=0}^N R(nT_0; mT_0) w_n = F(kT_0)$$

with restrictions of the form

$$\int_0^{T_H} f_i(\tau) w(\tau) d\tau = \mu_i;$$

$$\sum_{n=0}^N f_i(nT_0) w_n = \mu_i,$$

respectively. The accuracy of the solution to equation (1) is evaluated by approximate methods. An algorithm for determining the weight functions

Card 2/3

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S/044/62/000/009/059/069
A060/A00016.8000
9.7000AUTHORS: Solodovnikov, V.V., Batkov, A.M., Baburin, V.M., Val'denberg, Yu.S.,
Matveyev, P.S., Pokrovskiy, A.N.TITLE: Analysis and synthesis of automatic control systems using the means
of computer technologyPERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 43, abstract 9V229
("Tr. I Mezhdunar. kongressa Mezhdunar. federatsii po avtomat.
upr., 1960." (T. 4). Tekhn. sredstva avtomatiki", Moscow., AN SSSR,
1961, 191 - 206. Discussion, 206 - 207)TEXT: The problem of analyzing an automatic control system which is af-
fected by several perturbing forces reduces to the solution of integral equa-
tions of the form:

$$R_{x_1 y_k}(t) = \int_0^{\infty} R_{y_k y_k}(t - \tau) K_k(\tau) d\tau \quad \text{for } i = 1, 2, \dots, n; \quad (1)$$
$$k = 1, 2, \dots, m.$$

Card 1/4

Analysis and synthesis of automatic

S/044/62/000/009/059/069
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The problem of system synthesis reduces to the solution of an integral equation

$$\int_0^T R(t - \tau) K(\tau) d\tau = F(t); \quad 0 \leq t \leq \infty; \quad (2)$$

with constraints of the form $\int_0^T f_1(\tau) K(\tau) d\tau = \mu_1$. +
4 (3)

The paper considers: first, the general method of solution in closed form of the class of synthesis problems which reduce to the integral equation (2); second, the application of the method of inverse systems to the analysis of linear systems by means of electronic simulating installations in the case of nonstationary random forces at the input; third, special-purpose computers elaborated by the authors and, fourth, some problems of applying general-purpose digital computers to the solution of problems which reduce to the expressions (1) and (2). The method of solution set forth does not require the application of artificial methods and includes as special cases all the analyzed problems of statistical dynamics in the class of systems with constant parameters. The theorems set forth in the article make it possible to: 1) determine the correlation

Card 2/4

Analysis and synthesis of automatic

S/044/62/000/009/059/069
A060/A000

function of the output signal of an automatic control system with variable parameters in the presence of white noise at the input; 2) determine the differential equation of the shaping filter for a nonstationary stochastic process with a correlation function of the form

$$R(t, \tau) = \sum_{i=1}^n \varphi_i(t) \psi_i(\tau) \quad (t > \tau),$$

where φ_i and ψ_i are linearly independent functions continuously together with their derivatives; n is bounded. A similar method may be applied to automatic control systems containing inertialess elements. The system of equations thus obtained may be solved with the aid of a simulator. The correlograph described is a special-purpose analog computer. It is designed for the computation of correlation functions of processes with a low-frequency spectrum of 0 ± 20 cps. The error of the solution is $5 \pm 10\%$ of the maximum value. The synthesizer is a special-purpose computer for the solution of linear one-dimensional integral equations of the Fredholm and Volterra type of the first and second kind with a convolution kernel and also for calculating autocorrelation and correlation

Card 3/4